



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,387	12/28/2001	Kin Foong Chan	22397.266	4550

27683 7590 10/15/2003
HAYNES AND BOONE, LLP
901 MAIN STREET, SUITE 3100
DALLAS, TX 75202

EXAMINER

MAI, HUY KIM

ART UNIT PAPER NUMBER

2873

DATE MAILED: 10/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)	
10/035,387	CHAN ET AL.	
Examiner	Art Unit	
Huy K. Mai	2873	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2001.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 December 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 0502. 6) ☐ Other:

DETAILED ACTION
Information Disclosure Statement

1. The Information Disclosure Statement filed on May 20, 2002 is acknowledged.

Oath/Declaration

2. The declaration filed on Dec. 28, 2001 is acceptable.

Drawings

3. The drawings are objected to because the U.V. light source 308 in Fig. 3 should be placed on the right-hand side of the beam splitter 304 in order the light 310 being reflected by the beam splitters 304,210 toward the subject 114 and then reflected back toward the sensor 302 as disclosed in page 8.. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claims

4. The present patent application contains claims 1-17,19-22.
5. The mis-numbered claims 1-17,19-22 has been renumbered claims 1-21.
6. Claim 1 is objected to because of the following informalities: The word "any" in claim 1, line 6 should change to –surface—for clarity. Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Huignard et al (5,652,672).

Huignard et al discloses in Figs. 1-6 an optical system comprising distance modulators being individually manipulated to adjust the distance between the distance modulators and the subject surface for compensating the surface distortion.

Regards claim 2, Huignard et al discloses a sensor 2.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 6-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huignard et al (5,652,672).

Huignard et al discloses in Figs. 1-6 an optical system comprising distance modulators being individually manipulated to adjust the distance between the distance modulators and the subject surface for compensating the surface distortion. Although Huignard et al's does not disclose clearly an optical system for use with image source for projecting an image onto a surface having a surface plane wherein the first optical device corresponding to the surface plane and spaced from the surface plane at a predetermined distance as claimed by the applicant. It would have been obvious to a person having skilled in the art to rearrange the optical device to project an image onto a surface having a surface plane wherein the first optical device corresponding to the surface plane and spaced from the surface plane at a predetermined distance for the same

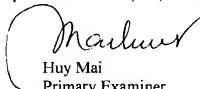
Art Unit: 2873

technique of manipulating individually the distance modulators for adjusting the distance between the distance modulators and the subject surface for compensating the surface distortion. In another word, the technique of manipulating individually the distance modulators for adjusting the distance between the distance modulators and the subject surface for compensating the surface distortion is known in the art. Therefore claims 6-21 are unpatentable over Huignard et al under 35 USC 103.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy Mai whose telephone number is (703) 308-4874. The examiner can normally be reached on M-F (8:00 a.m.-4:30 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (703) 308-4883. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Huy Mai
Primary Examiner
Art Unit 2873

HKM/
September 27, 2003